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Approved For Release 2000/06/14 : CIA-RDP78-06505A000500040102-5

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Chief, Real Estate and Construction
Division, OL

25 APR 1966

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Chief, Engineering Staff, OC

Air Conditioning Problems -

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1. The Office of Communication's major [redacted] located at [redacted] is experiencing considerable difficulties with the various air conditioning systems in use in the main operations building. The original operations building, when completed and put into operation in 1959, was adequately air conditioned with a 30 ton water cooled condenser system. In 1962, this structure was expanded to double the size to meet increased operational requirements. A 40 ton air-cooled condenser system was installed at this time to service this addition. Again in 1963, an additional room was added to the above building complex for the MAX-1 and its associated equipment. A single 15 ton A/C unit was installed specifically to handle this vital area housing the MAX-1. Because of the sensitive nature and importance of the MAX-1 equipment, the old 30 ton system distribution ducting was re-designed to back up the 15 ton unit in case of failure. A second 15 ton unit has since been installed to satisfy this back up requirement. The changes as made to the 30 ton ducting still remain.

2. Since 1962, continually increasing operational demands necessitated the installation of additional heat producing electronic, teletype and other equipment to the point where the cooling capacity of the combined 30 and 40 ton units barely are adequate. Aggravating the above situation is the deterioration of the 30 ton efficiency as a result of heavy mineral scale deposits forming on the cooling coils caused by impurities in the local water and lack of proper maintenance by [redacted] maintenance personnel who are unfamiliar with the peculiar and diversified equipment used in each of the systems.

25X1A

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25 APR 1966

25X1A 3. This office believes that immediate action is necessary to prevent the present situation from deteriorating to the point where proper operations of the [REDACTED] could be hampered by lack of suitable air conditioning. Therefore, you are requested to send a qualified air conditioning specialist to this Post at the earliest date to:

25X1A

a. Inspect all of the systems in use now and make immediate and specific recommendations for improving them, check into possible re-design of the ducting for better air flow distribution, solve or rectify the scale formation on the 30 ton cooling coils and any other problems which will improve efficiency of the systems.

b. Prepare a study, plans, recommendations and preliminary cost estimates for replacing all of the units in use now with a central system; this would include the two 15 ton units serving the MAX-1 area.

25X1A c. Investigate the feasibility (keeping in mind the economics of the idea) of establishing our own air conditioning repair/maintenance shop and staff, or select similar type equipment for new system above as used throughout [REDACTED] that would be efficiently serviced and maintained by the [REDACTED] air conditioning shops.

25X1A

25X1A 4. If additional information is required on the above, please contact [REDACTED] on extension 2936.

[REDACTED] 25X1A

Distribution:
Original & 1 - Addressee

AIR CONDITIONING PROBLEMS

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1. [REDACTED] is experiencing considerable difficulties with the various air conditioning systems in use in the main operations building. The original operations building, when completed and put into operation in 1959, was adequately air conditioned with a 30 ton water cooled condenser system. In 1962, this structure was expanded to double the size to meet increased operational requirements. A 40 ton air-cooled condenser system was installed at this time to service this addition. Again in 1965, an additional room was added to the above building complex for the MAX-1 and its associated equipment. A single 15 ton A/C unit was installed specifically to handle this vital area housing the MAX-1. Because of the sensitive nature and importance of the MAX-1 equipment, the old 30 ton system distribution ducting was re-designed to back up the 15 ton unit in case of failure. A second 15 ton unit has since been installed to satisfy this back up requirement. The changes as made to the 30 ton ducting still remain.

2. Since 1962, continually increasing operational demands necessitated the installation of additional heat producing electronic, teletype and other equipment to the point where the cooling capacity of the combined 30 and 40 ton units barely are adequate. Aggravating the above situation is the deterioration of the 30 ton efficiency as a result of heavy mineral scale deposits forming on the cooling coils caused by impurities in the local water and lack of proper maintenance by [REDACTED] maintenance personnel who are unfamiliar with the peculiar and diversified equipment used in each of the systems.

3. This office believes that immediate action is necessary to prevent the present situation from deteriorating to the point where proper operations of the Radio Relay Facility could be hampered by lack of suitable air conditioning. Therefore, you are requested to send a qualified air conditioning specialist to this Post at the earliest date to:

a. Inspect all of the systems in use now and make immediate and specific recommendations for improving them, check into possible re-design of the ducting for better air flow distribution, solve or rectify the scale formation on the 30 ton cooling coils and any other problems which will improve efficiency of the systems.

b. Prepare a study, plans, recommendations and preliminary cost estimates for replacing all of the units in use now with a central system; this would include the two 15 ton units serving the MAX-1 area.

c. Investigate the feasibility (keeping in mind the economics of the idea) of establishing our own air conditioning repair/maintenance shop and staff, or select similar type equipment for new system above as used throughout [REDACTED] that would be efficiently serviced and maintained by [REDACTED] conditioning shops.

25X1A